CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/KRIDL/W.No.13//GSB-III/Gradation/2017-18 Date 02.05.2017

TEST REPORT ON GRADATION FOR COARSE GRADED GRANULAR SUB BASE

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of Work	:	Improvements of CC Roads in 11th, 11th B, 12th, 13th,14th and adjacent cross roads to pipeline near Baghya Lakshmi temple at Kalyananagara in Ward No.13, in Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/DD/WO/38/2017-18 Dated: 20.04.2017
* Sample ID	:	Coarse Graded - III
Technical Reference	:	IS : 2720 (Part - 4)1985 (RA-2010), MORTH Table 400-2
Date of Testing	:	02.05.2017

Oven Dry Wt (gm) : 5000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specified Limits
26.5	0	0	0.00	100.00	100
4.75	3220	3220	64.40	35.60	25-45
0.075	1530	4750	95.00	5.00	<10
PAN	250				
Total	5000				

* Information is furnished by the Customer/Representative

Remarks: Satisfies MORTH Specifications as per Table 400-2, Grading III

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Civil-tech Consultants & Engineers
#23/14, 7th Cross, 3rd Stage, 4th Block,
Shakthi Ganapathinagar,
Basaveshwaranagar, Bangalore-560 079.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

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Job No.: CTCE/BBMP/KRIDL/W.No.13/GSB-III/AL/2017-18 Date 02.05.2017

TEST REPORT ON ATTERBERG LIMITS FOR GRANULAR SUB BASE

*Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
*Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
*Name of work	:	Improvements of CC Roads in 11th, 11th B, 12th, 13th,14th and adjacent cross roads to pipeline near Baghya Lakshmi temple at Kalyananagara in Ward No.13, in Shettyhalli Sub Division, BBMP, Bangalore.
*Reference	:	BBMP/EE/DD/WO/38/2017-18 Dated: 20.04.2017
Sample ID	:	GSB- (Coarse graded-III)
Technical Reference	:	IS : 2720 (Part - 5) 1985 (RA-2010), MORTH Table : 400-01
Date of Testing	:	02.05.2017

Sl. No.	Particulars	Test Results	Standards as per Specifications
1	Liquid Limit, %	22.50	25.0% Maximum.
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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AE-13

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ಮಾ.ವಿ. ರಸ್ತೆ, ರಾಜರಾಜೇಶ್ವರಿನಗರ, ಬೆಂಗಳೂರು

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T-2377

Job No.: CTCE/BBMP/KRIDL/W.No.13/CSR-04/326d/Cube/2017-18 26.05.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of the work	:	Improvements of CC Roads in 11th, 11th B, 12th, 13th,14th and adjacent cross roads to pipeline near Baghya Lakshmi temple at Kalyananagara in Ward No.13, in Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/DD/WO/38/2017-18 Dated: 20.04.2017
* Sample ID	:	RCC Drain Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	26.05.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.04.2017	26.05.2017	8.127	478.3	21.26
2	28.04.2017	26.05.2017	8.290	493.5	21.93
3	28.04.2017	26.05.2017	8.367	506.4	22.51

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VIDYARANI P.K.
Technical Manager

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Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	26.05.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.04.2017	26.05.2017	8.192	480.3	21.35
2	28.04.2017	26.05.2017	8.226	490.5	21.80
3	28.04.2017	26.05.2017	8.382	508.3	22.59

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Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	30.05.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.05.2017	30.05.2017	8.265	482.3	21.44
2	02.05.2017	30.05.2017	8.319	493.5	21.93
3	02.05.2017	30.05.2017	8.415	506.8	22.52

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